

**Amendments to the Claims**

1. Canceled.

2. (Previously presented) The isolated nucleic acid molecule of claim 27 comprising the sequence of SEQ ID NO: 4.

3-20. Canceled.

21. (Previously presented) The isolated nucleic acid molecule of claim 28 wherein the isolated nucleic acid molecule comprises SEQ ID NO:1 or a fragment thereof.

22. (Previously presented) The isolated nucleic acid molecule of claim 28 wherein the isolated nucleic acid molecule encodes and is adapted to express in a cell residues 1-10,427 of SEQ ID NO:5 or a fragment of residues 1-10,427 of SEQ ID NO:5.

23-26. Canceled.

27. (Previously presented) An isolated nucleic acid molecule encoding residues 10,432 to 22,152 of SEQ ID NO:5 or a fragment of residues 10,432 to 22,152 of SEQ ID NO:5;  
wherein the isolated nucleic acid molecule is an expression vector and is adapted to express in a cell residues 10,432 to 22,152 of SEQ ID NO:5 or a fragment of residues 10,432 to 22,152 of SEQ ID NO:5;

wherein the fragment of residues 10,432 to 22,152 of SEQ ID NO:5 is an antigenic fragment that can be used to make monoclonal antibodies that specifically recognize CA125.

28. (Previously presented) An isolated nucleic acid molecule encoding CA125 (SEQ ID NO:5) or a fragment thereof;

wherein the isolated nucleic acid molecule is an expression vector and is adapted to express in a cell CA125 (SEQ ID NO:5) or a fragment thereof;

wherein the fragment thereof is an antigenic fragment that can be used to make monoclonal antibodies that specifically recognize CA125 (SEQ ID NO:5);

wherein the isolated nucleic acid molecule encodes residues 1 to 10,431 of SEQ ID NO:5 or a fragment of residues 1 to 10,431 of SEQ ID NO:5.

29. (Previously presented) The isolated nucleic acid molecule of claim 28 comprising the sequence of SEQ ID NO: 4.

30. (New) The isolated nucleic acid molecule of claim 28 wherein the isolated nucleic acid molecule encodes and is adapted to express residues 1-10,431 of SEQ ID NO:5 or an antigenic fragment of residues 1 to 10,431 of SEQ ID NO:5.